ABSTRACT

Appropriate performance design of various mechanisms, e.g. a mist removing filter, employed in post-paint treatment of various mechanisms, e.g. a deodorizer, employed in post-dry treatment is realized. Paint weight calculation is executed. Firstly, the amount of dry adhered paint is calculated by multiplying the work area by a coating thickness distribution value and stored, and the weight of dry adhering paint is calculated by multiplying the amount of dry adhering paint by the specific gravity of the dry paint and stored. Meanwhile, the weight of dry paint or the weight of dry paint sprayed from a paint machine is calculated by multiplying the weight of sprayed paint by a paint NV and stored, the weight of dry non-adhered paint is calculated by subtracting the weight of dry adhering paint from the weight of dry sprayed paint and stored, and then capacities of various mechanisms are designed using it. Furthermore, the amount of dry adhered paint or the volume of dry paint adhered to a work is determined and multiplied by the specific gravity of dry paint to determine the weight of dry adhered paint, which is then divided by the paint NV to determine the solvent weight of adhered paint. Lastly, the VOC weight is determined as the solvent weight of adhered paint by subtracting the weight of dry adhered paint from the weight of adhered paint containing the solvent and employed in designing the capacities of various mechanisms.

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